ASBESTOS

SEPTEMBER - 1948

TAPE WORM

Meet Thaddeus Q. Brownstudy, our expert on asbestos tapes. You might say that his field is rather specialized, and you'd be right. R/M has many different specialists, like Thad, designing asbestos products for industry. In tapes, for instance, R/M weaves dozens of varieties, from 1/32" to 1¼" thick. In quality and workmanship, they are typical of all the diverse asbestos products made by Raybestos-Manhattan.

RM

RAYBESTOS - MANHATTAN, INC.

ASBESTOS TEXTILE & PACKING DIVISION

MANHEIM, PA. NORTH CHARLESTON, S. C.

"ASBESTOS"

FOUNDED IN JULY 1919 AND PUBLISHED
MONTHLY SINCE THAT DATE

BY SECRETARIAL SERVICE
17th FLOOR INQUIRER BUILDING
PHILADELPHIA, 30, PENNSYLVANIA

Estate of C. J. STOVER, *Proprietor*
A. S. ROSSITER, *Editor*
E. E. COX, *Circulation Manager*

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CONTENTS

	Page
Editorials	
Fire Prevention Week	2
Boost Pennsylvania	3
GEOLOGY OF ASBESTOS DEPOSITS—Arizona	4
The Ruberoid Plant at Dallas	12
Musbach Roofing Co.	14
ASBESTOS PRODUCTION—Union of South Africa	16
Asbestos Covering Lasts 53 Years—A Service Tale	19
The Canari Mine—Corsica	20
V-Dent Pipe Insulation	22
MARKET CONDITIONS	24
Briefs	27
Friendly Approach -- A Lesson In Selling	28
Collapse Resisting Strength — *Chart*	30
Building Contract Volume Continues Upward	32
Automobile Sales	32
Production Statistics	34
Imports and Exports	36
NEWS OF THE INDUSTRY	40
Patents	48
Afterthoughts	50
Current Range of Price	52
Asbestos Stock Quotations	52

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FIRE PREVENTION WEEK - A Few Facts

Fire Prevention Week is the week of October 3rd to 9th.

Because asbestos is almost a synonym for fire protection, fire prevention and fireproofing, the Asbestos Industry and its members are urged to support the fire prevention campaign vigorously.

Earl O. Shreve, President of the National Chamber of Commerce, in announcing the Chamber's plan for the campaign said "The critical shortage of many basic materials and especially the shortage of houses and other buildings, make it imperative that the nation's fire losses be substantially curtailed."

The National Board of Fire Underwriters estimate the total fire loss in 1947 to be $692,635,000. For the first six months of 1948 the estimate is $386,480,000 compared with $369,276,000 for the same period of 1947 and $295,306,000 for the first half of 1946. The upward trend in fire losses as shown by these figures is tremendous and alarming.

What can we, the Asbestos Industry, do about it?

The twin objectives of Fire Prevention Week are to rid our homes and communities of the hazards which account for the majority of fires and to focus attention on the careless habits which take such a high toll of life and property.

Approximately 600,000 U. S. buildings are attacked by fire each year which can be roughly divided into the following classifications: 260,000 dwellings, 56,000 stores and shops, 75,000 motor vehicles, 48,500 apartments and rooming houses, 31,700 manufacturing plants, 10,200 restaurants and taverns 9,100 hotels and boarding houses, 3,600 theatres and amusement places, 34,600 miscellaneous.

Someone estimates that the U. S. residential fire loss alone could be cut 50% if all American homes had these four features: Properly installed heating plants, adequately safeguarded; properly constructed chimneys; fire-resistant roofing; sound and adequate electric wiring.

Some fear the atom bomb, but it would be much more sensible to fear, and work to prevent, a nearer menace—FIRE!

BOOST PENNSYLVANIA

The week beginning September 26th has been designated as Pennsylvania week and all true and loyal citizens of Pennsylvania are asked to boost their home state. Not a hard task when we reflect on the many things for which Pennsylvania is noted.

First of all its historic associations, as physically demonstrated by Independence Hall, Valley Forge Park, the Betsy Ross House where the national flag was born—and many more.

Its mineral resources—Pennsylvania surpasses all other states in the value of its mineral products. Coal constitutes 70% of the total, follow, in the order of importance, cement, natural gas, petroleum, slate, clay, iron.

Its manufacturing industries make one half of the steel produced in the United States; in fact no foreign nation exceeds Pennsylvania in its output of iron, steel and coal.

Its educational facilities are outstanding and many of its colleges nationally and even internationally known: the University of Pennsylvania, Bryn Mawr College for Women, University of Pittsburgh, Lehigh University, Temple University, Pennsylvania State College, Carnegie Institute, Drexel Institute, to mention only a few.

Last of all its scenic beauty. There is much natural beauty in Pennsylvania, its mountains, rivers and the generally rolling character of its topography.

Yes we are true Pennsylvanians and are proud of our State and its varied resources and attractions.

• • • —

A real honor was accorded the Asbestos Industry recently. On the cover page of House Beautiful (September issue) which depicted part of a modern kitchen, was shown a Carosel Asbestos Towel. The description of the cover illustration given on the title page mentioned the towel as containing asbestos and also the fact that it was made by the U. S. Rubber Co.

The towel, without mention as to its asbestos content was also shown on pages 77, 78, 79 and 80 in various illustrations of kitchen equipment.

GEOLOGY OF ASBESTOS DEPOSITS

II. Arizona

By Kay Baddlet

Chrysotile asbestos was discovered in Gila County, Arizona in 1872 by Charley Newton. Today, this place of discovery is part of the Phillips Asbestos Co. property which is located about 35 miles from Globe in the direction of Salt River. Small asbestos deposits have been located in the Grand Canyon, and near the towns of Quartzite, Winkleman, and Kingman, but according to Melhase[1] the commercial deposits can be grouped in the following districts: Mogollon Rim, Cherry Creek, Sierra Ancha, Chrysotile (or Ash Creek) and Globe.

The chrysotile asbestos of Arizona generally occurs with serpentine rock in dolomitic limestone near an intrusive contact of diabase. These diabase sills and dykes are found in thicknesses varying from a few inches to several hundred feet. The Mescal limestone, part of a succession of strata known as the Apache group, is normally a hard, cherty, dolomitic limestone which when weathered becomes grey to buff in color. Where the diabase sills split the Mescal formations, the metamorphism following the intrusion resulted in the development of serpentine and asbestos. The diabase probably underwent a hydrothermal alteration and the magnesium and silica were obtained from the olivine of the diabase and limestone. Then the magnesium and silica in the form of mobile solutions traversed the fissures in the rocks and crystallization set up, resulting in the formation of asbestos.

It is concluded by Shride[2] that the intrusion of the diabase helped to increase the fracturing and folding of the limestone. Faulting had begun before the diabase intrusion and continued until after the mineralization ended. Therefore, the effect of bedding-plane faulting, especially

[1]Melhase, John, "Asbestos Deposits of Arizona", Engineering and Mining Journal-Press, November 21, 1925. pp. 805-6.

[2]Shride, A. F., Results of the Geological Survey-Bureau of Mines Exploratory Program in the Asbestos Districts of Gila County, Arizona, Unpublished report, January 1944, appearing in "Arizona Asbestos Deposits, Gila County, Arizona" by Stewart and Haury.

THIS IS CAREY'S 75TH YEAR

serving home and industry

Since 1873 Carey has been manufacturing products of which asbestos is an integral part.

And Carey research is constantly working to make those products work better and to develop new products which will utilize the outstanding qualities of asbestos.

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in the massive limestone beds was the greatest single factor in localizing the deposits of asbestos.

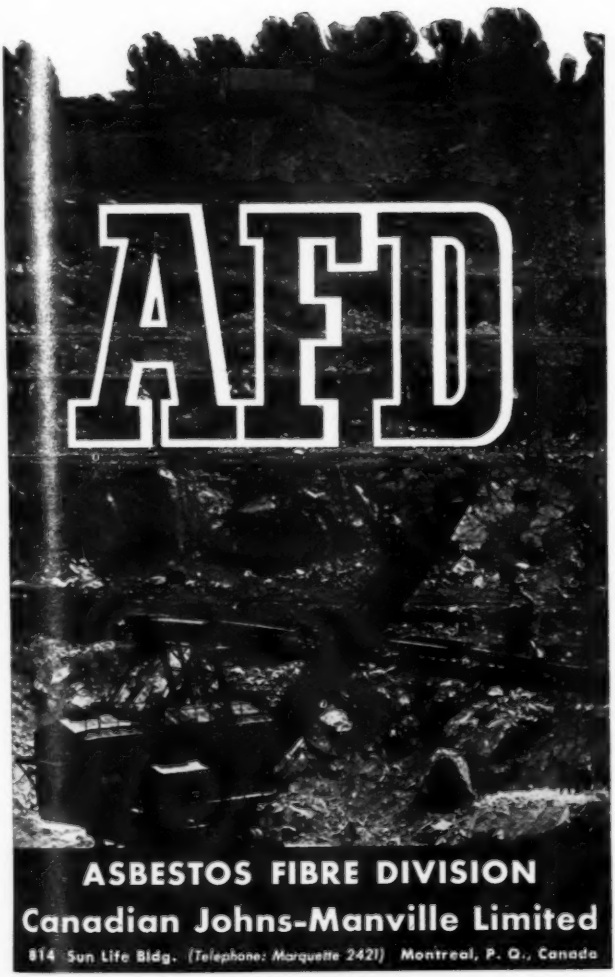
The Apache group has been regarded by Ransome[3] as probably Cambrian. It consists of formations of Troy quartzite, Basalt flow, Mescal limestone, Dripping Spring quartzite, Barnes conglomerate, Pioneer shale and Scanlan conglomerate. Many investigators have mapped these formations near Globe, Roosevelt Dam, Sierra Ancha, Apache Indian Reservation, Gila River, Cherry Creek, Salt River Canyon, and other vicinities. In general it is concluded that stratigraphically speaking, the Apache group is fairly uniform altho the thicknesses of the formations vary.

In the asbestos producing areas the Mescal limestone, Basalt flow and Troy quartzite are frequently found exposed by erosion. At Chrysotile the basalt reaches 100 feet in thickness and also appears on the slopes of the Sierra Ancha and some places in the Salt River region. The Mescal limestone contains thin, intercalated beds of chert which apparently is characteristic of this dolomitic limestone. However, in some locations on the Salt River, in the Sierra Ancha and near Chrysotile, the limestone is quite thick and pure, varying in thicknesses of 150 to 300 feet. In thin layers of the pure limestone, where the sills of the diabase intruded this formation, alteration has taken place to form asbestos (chrysotile).

The asbestos bearing limestones of this region usually show outcrops along the side walls of the canyons some of which are quite steep and almost inaccessible. The prospector when locating an outcrop tries to follow the asbestos bearing vein by tunneling into the side of the canyon. Quite often the veins of asbestos pinch off suddenly or faults occur which completely block off the area.

It has been considered by many investigators that the presence of the diabase was an important factor in the formation of asbestos because at the points of fracture and faulting, the formation of asbestos was concentrated. Therefore, these signs are looked for as a guide to deposits.

[3]Ransome, F. L., Geology of the Globe Copper District, Arizona: U. S. Geol. Survey Prof. Paper 12, 1903.


AFD
ASBESTOS FIBRE DIVISION
Canadian Johns-Manville Limited
814 Sun Life Bldg. (Telephone: Marquette 2421) Montreal, P. Q., Canada

The asbestos of Arizona is found in bands of serpentine rock varying in thickness from a few inches to over two feet. Frequently small veins of fibrous calcite are found closely associated with asbestos seams. In some cases the wall rocks are entirely of altered limestones while in other cases the wall rocks are wholly serpentine or grade into limestone.

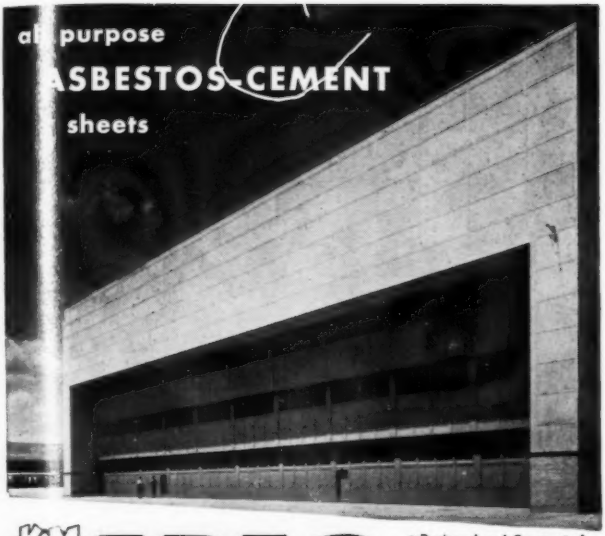
Most of the chrysotile asbestos found in Arizona is of the cross fibre variety. Slip fibre is rare in the area, with only one mine having produced any appreciable quantity. The cross fibre veins vary in thickness from fractions of an inch to 14 inches, but the average vein is less than two inches thick. The fibre is also found in both harsh and soft varieties with all gradations in between. It has been estimated that approximately two-thirds of the chrysotile of the district is soft fibre. These strong, flexible fibres when relatively free from limestone impurities, are in commercial demand for filtration purposes. The harsh fibre is splintery and brittle and of little commercial value.

In addition to the chrysotile, other varieties of asbestos fibres are found in Arizona. Because they are not used in commercial quantities, they are rarely known to be located in the state.

Anthophyllite, a magnesium iron silicate, occurs in schists and gneisses in Mohave County in the Hualpai Mountains and in Santa Cruz County in the Patagonia Mountains.

Tremolite, a calcium magnesium silicate, occurs in Cochise County, Bisbee district, Tombstone district, and in the Little Dragoon Mountains. In Greenlee County, the tremolite is found in the Clifton-Morenci district. Santa Cruz and Yuma Counties also show occurrences of tremolite in small quantities. In general, most of the tremolite is found in metamorphic gangue or metamorphosed limestone.

Actinolite in small quantities has been found in the following counties: Cochise, Graham, Greenlee, Mohave, Pima, Pinal, Santa Cruz, Yavapai and Yuma. This fibre appears mostly in metamorphosed limestones or as gangue



K&M "Century" APAC

• Designed and Constructed by Austin Company

The front of this huge aircraft assembly plant shows you another example of Apac's adaptability as an exterior sheathing. Durable, weather-and-fire resistant, K&M "Century" Apac can be put to almost unlimited uses.

In addition to "Century" Apac, K&M manufactures a complete line of Asbestos and Magnesia Insulations, Asbestos Textiles, Asbestos Paper, Packings, Sprayed "Limpet" Asbestos, Asbestos Cement Pipe, Corrugated Sheets, Roofing and Siding Shingles.

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Keasbey & Mattison has made it serve mankind since 1873

K&M best in asbestos ®

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COMPANY • AMBLER • PENNSYLVANIA

of contact metamorphic rocks. This variety of asbestos is a calcium magnesium silicate with iron present.

Hornblende, an amphibole containing ferrous or ferric iron, aluminum, magnesium, calcium and alkalies, is a common constituent of igneous rocks. It is generally most abundant in the diorite and syenit groups and is the chief mineral of the amphibolites. In Arizona, hornblende occurs in Cochise, Gila, Greenlee, Pima, Pinal, Yavapai and Yuma Counties.

Serpentine as a rock occurs in Cochise, Coconimo, Gila, Greenlee, and Pinal Counties. In these same counties, asbestos as chrysotile also occurs in varying quantities.

References: Bowles, Oliver, Asbestos, U. S. Dept. of the Interior Bulletin 403, 1937 p. 20.

Stewart, Lincoln A. and Haury, P. S., "Arizona Asbestos Deposits, Gila County, Arizona", U. S. Dept. of Interior, Bureau of Mines, R. I. 4100, August 1947, pp. 5, 7-11.

Wilson, Eldred D., "Asbestos Deposits of Arizona", University of Arizona Bulletin No. 126, October 15, 1928, pp. 28-33.

Darton, N. H., A Resume of Arizona Geology: University of Arizona Bulletin No. 119, October 15, 1925, pp. 27-34.

Galbraith, F. W., Minerals of Arizona: University of Arizona Bulletin Vol. XII, No. 3. Arizona Bureau of Mines series No. 15, Bull. 149, July, 1941, pp. 49, 50, 58.

Note: The first of this series on the Geology of Asbestos Deposits was published in our March 1948 number and covered ...Vermont.

. . . —

RAMIE, one of the world's vegetable fibres and one that has tantalized textile engineers for more than a century in their efforts to find a practical end use for the material, is now being used as packing for reciprocating pumps by the United States Rubber Company. Ramie packing is recommended for such uses as cold water and brine pumps because of its high tensile strength and ability to absorb and retain lubricants, minimize abrasion and prolong wear. Its toughness makes it suitable for packing applications where service requirements are too severe for flax or jute fibres.

. . . —

Good luck and bad is a synonym, in the great majority of instances, for good and bad judgment.

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- Asbestos-Cement Products
- Insulation, Pipe-Coverings, etc.
- Coal Tar Products
- Building and Waterproof Papers
- Insulating Tape
- Pipe Line Wrapping Materials
- Rapid Asphalt Paint

The RUBEROID Co.

Executive Offices: 500 Fifth Ave., New York 18, N. Y.

THE RUBEROID PLANT AT DALLAS

The building in the background along the railroad tracks is the new unit.

The large, new asbestos-cement manufacturing unit built during 1947 by The Ruberoid Co. at its Dallas, Texas, plant commenced operations early this year and since April has been in full production.

The new unit is 400 feet long and 100 feet wide, is of steel-frame construction and roofed and sided with Ruberoid asbestos-cement corrugated sheets. The principal product at present is asbestos-cement siding, which is now in heavy demand for residential construction.

Ruberoid operations at Dallas started in 1946 with acquisition of the property of Longhorn Roofing Products, Inc., consisting of an asphalt roofing plant and dry felt mill located on a 26 acre tract with convenient access to railroad transportation. With the added unit, the Dallas plant as a whole is now equipped for large-scale manufacture of many of the company's most important products, including asphalt shingles and roll roofings and the dry felt used in the production of various kinds of asphalt building materials. More than 375 persons are presently employed.

Ruberoid's Dallas development is part of a general

Unibestos Pipe Covering and Blocks

Amosite Woven Felts

Asbestos Packings and Gaskets

Asbestos Textiles

Processed and crude Amosite Fibres

Insutape spiral pipe insulation

Wovenstone pipe insulation

Insutube and Thermotube pipe and tube insulation

Tailored Insulations for turbines, exhaust manifolds, etc.

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Offices: Chicago 4, New York 17, San Francisco 5, Davidson, N. C.

Plants: Cicero 50, Ill., Blue Island, Ill., Paterson 4, N. J.

Earlville, Ill., Davidson, N. C., Marshville, N. C.

program of plant expansion and improvement inaugurated by the company to help meet an unprecedented demand for building materials in the South and Southwest. The project is also in line with the company's policy of decentralizing its manufacturing operations in convenient distributing centers, from which prompt service can be given to building material dealers in the surrounding territory.

MUSBACH ROOFING CO.

Pioneer in Asbestos Cement Shingle Work

Before Abraham Lincoln was elected President of the United States, the Musbach Roofing Company of Middletown, N. Y., was a going concern. In fact it began business in 1857, having been founded originally by Carl Musbach, an uncle of the present Director, William H. Musbach.

Today asbestos-cement shingles, siding and board are the major line of the company.

We understand that the Musbach Company was the first customer of the Keasbey & Mattison Company for asbestos-cement products. The Musbach Company still purchases from that firm, and sells largely to farmers in Orange County (its home county). It finds that asbestos-cement materials have a ready market in outlying rural districts because there are not adequate fire fighting facilities and asbestos-cement roofing and siding help solve the protection against fire problem.

One of the outstanding roofing jobs recently handled by the Musbach firm was for the Grange League Federation of Middletown. One hunderd and fifty squares of roofing were required to protect many thousands of dollars worth of perishable feed products and expensive machinery and equipment.

Mr. Musbach can look with pride on asbestos-cement roofs installed by his company forty years ago which are functioning as well today as when they were first applied.

ASBESTOS

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ASBESTOS PRODUCTION
Union of South Africa

The Union of South Africa has the distinction of being the only country which actually produces four different types of Asbestos—Amosite, Chrysotile, Crocidolite (popularly known as blue), and Anthophyllite.

The production of Anthophyllite is negligible—in 1947[1] only 30 tons of this variety were produced and all of it sold and used locally. In the same year of a total of 30,142 tons, Amosite constituted about 62%, Blue about 30%, and Chrysotile the remaining 8% with the exception of the amount of Anthophyllite above mentioned.

The earliest reference to the occurrence of Crocidolite, according to Dr. A. L. Hall[2] in his Memoir No. 12 on terial collected by Lichtenstein in the Orange River." The Asbestos in the Union of South Africa, "was most probably Klaproth in 1815, who published an analysis of maname of Crocidolite, again quoting Dr. Hall, "was proposed by Hausmann in 1831 and means a 'stone' with 'woolly' appearance. Klaproth described the material as Blau Eisenstein (blue ironstone)."

It was not until 1890, however that Crocidolite asbestos was discovered commercially. Some "boys" (natives) working in the Kimberley diamond mines brought specimens of blue asbestos from their homes near Prieska. These came into the hands of a speculator named Cohen, who interested Francis Oats[3] and others, with the result that a syndicate was formed to prospect the deposits. It is in fact due largely to the persistence of Francis Oats that blue asbestos owes its present importance in asbestos manufacture. The syndicate in 1893 became Cape asbestos Limited, the most important producer and manufacturer of blue asbestos.

[1]See page 27 of August 1948 "ASBESTOS."

[2]Dr. Hall was Assistant Director of the Geological Survey of the Union of South Africa, retired in 1932.

[3]Francis Oats, a Director of DeBeers Company, who did much to lay the foundation of the diamond and gold mining industries in South Africa. See October 1925 "ASBESTOS", page 12 for biography.

MITH & KANZLER CORPORATION

MANUFACTURERS OF

ASBESTOS PAPER

AND

LOW PRESSURE INSULATIONS

ESTABLISHED 1920

LINDEN, NEW JERSEY

As to Chrysotile, we learn that deposits of that variety of asbestos in South Africa were first known in 1895 but the first attempt to develop them is believed to be in 1905 in the Carolina District. Other deposits have since been developed, altho as will be seen from the figures for 1947 given above, the production of Chrysotile in the Union at present is very small.

The variety of asbestos known as Amosite is found in no other country on the globe and, unlike the other types, the name it bears has no relation to its geology. It was first defined as a distinct mineral by Dr. Hall. The men who obtained from the old Transvaal Chief Secocoeni, the concession to work the deposits on the farm Penge, were Messrs. Wayne and Ward. They formed a small company named the Asbestos Mines of South Africa. It was Dr. Hall who named the mineral "Amosite" a derivation of Amosa, the initial letters of the Company's name.

Perhaps the most distinctive feature of Amosite asbestos is its length, or, to quote Dr. Hall "the high proportion of very long fibre." A specimen we have in our collection measures 10½ inches. In fact its extreme length for years prevented its development and use as most machinery for the working of asbestos fibres was designed for short fibres.

Many more interesting stories and facts could be told concerning the Asbestos Mines in South Africa, but having given briefly their history, we will proceed to set down for the record, figures for total production of the Union since first recorded in 1910, as follows:

	Tons (2000 lbs.)		Tons (2000 lbs.)
1910	693	1919	4,011
1911	1,266	1920	7,112
1912	1,220	1921	5,122
1913	961	1922	4,388
1914	1,190	1923	8,392
1915	2,138	1924	7,234
1916	4,655	1925	10,161
1917	6,219	1926	14,096
1918	3,144	1927	22,133

1928	24,054	1938	21,652
1929	33,023	1939	21,954
1930	19,380	1940	26,750
1931	15,680	1941	28,280
1932	12,070	1942	34,559
1933	15,876	1943	38,145
1934	17,594	1944	30,619
1935	22,798	1945	28,216
1936	24,606	1946	20,225
1937	28,633	1947	30,142

ASBESTOS COVERING LASTS 53 YEARS

A Service Tale.

The Walton Hotel in Philadelphia was a show place 50 years ago. The lobby was lined with Carrara marble and Mexican onyx. The elaborate Louis 16th Room formed a lavish background for balls and banquets. The latest of everything in construction as well as design was employed. It was one of the first buildings in Philadelphia to use steel and concrete construction.

The pipe insulation used when the Hotel was built in 1895, was Asbestos Firefelt Covering, manufactured by H. W. Johns Manufacturing Co., the covering having been developed and patented by that Company in 1886.

Early this year the building was torn down. Johns-Manville obtained samples of the Covering while the wreckers were at work and found that altho the building had outlived its usefulness the pipe insulation was still going strong, as the sections when opened up showed no signs of deterioration.

Editor's Note. The above information was obtained from the Summer 1948 issue of J-M Power Specialist.

• • • —

The 36th National Safety Congress and Exposition, sponsored by the National Safety Council, will be held in Chicago from October 18 thru October 22. For further information write George E. Burns, National Safety Council, 20 N. Wacker Drive, Chicago 6, Ill.

THE CANARI MINE - CORSICA

The Canari Mine in Corsica is being made ready for production—it is hoped to begin operation by January 1949, on a basis of approximately 15 to 20 tons per day, ultimately to be increased to a capacity of 10,000 tons of chrysotile slip fibre per year.

The quarry will be mined as at Balengero (Turin, Italy) by the Italian method of "Coltivazione and imbuto".

This consists of a horizontal continuous cartage gallery of about 700 yards length and 10 square yard section, equipped with electric trains in continous circulation.

The extraction of the asbestos bearing rock is to be made by ascending steps, 4 x 2 yards, inside an inversed cone of about 80° angle, the down summit being connected with the cartage gallery by funnels of 4 x 4 yards section, distributing the extracted rock to the tippine wagons. It is actually provided with two funnels.

The plant (mill) itself is divided into three completely separated parts, united by belt conveyors. In head a crushing house with primary jaw crusher, secondary giratory crushers and adequate screens. Then a "silo" of 10,000 tons of ore. The third part is the selection house, having a floor surface of nearly 3,500 square yards, containing horizontal Vernon dryers and all the machinery

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GUARANTEED

HAIR FELT

FOR

Low Temperature Insulation

Newark Hair Felt Co.

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for classification of fibre, to be of the conventional Jumbo type. The photograph shows this third part with the main road along the mine.

These three buildings are located successively on the slope of the mountain, the difference in level between that of the cartage gallery and that of the road being nearly 300 feet.

Classified products received at the main road level, will be carried by trucks to Bastia Docks, for shipment to the Continent, but it is planned to use the little harbour of St. Florent later on, thus cutting in half the transportation cost by truck.

V-DENT PIPE INSULATION

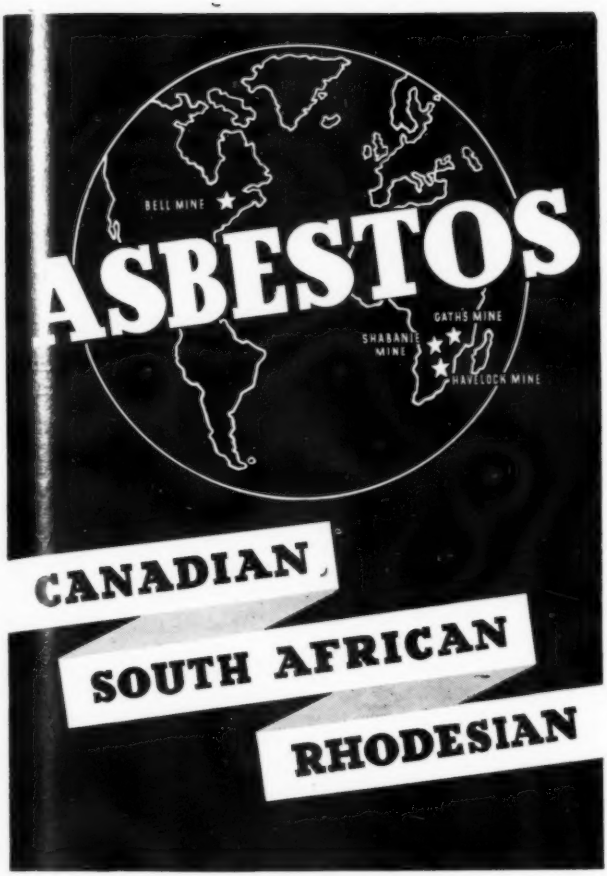
A War Product

During the war period the standard insulation materials—85% Magnesia, Sponge Felt, Air Cell and others, were, as everybody knows, extremely scarce and difficult to obtain.

One of the insulation manufacturers, the Norristown Magnesia & Asbestos Company, developed and perfected what they named V-Dent Pipe Insulation. This pipe insulation is constructed of 22 laminations, 20 of paper, backed with asbestos and liner, specially processed to withstand temperatures up to 600 degrees. It is claimed that the material will give great efficiency at that temperature.

V-Dent is said to be particularly adaptable to vibration conditions because of its sturdy construction, and for the same reason it can be removed from pipes and used over again with practically no breakage. In fact one of the principal uses of V-Dent Insulation is in the oil refining field for application to temporary lines. During the war large quantities were shipped to Russia for application to steam generating equipment.

Editor's Note: This is one of a series of articles on asbestos products developed during the war. Others in the series are "Vee" Type Packing (November 1947 "ASBESTOS") and Thermoflex Insulation Blanket (in October 1947).



RAW ASBESTOS DEPARTMENT

Turner & Newall Limited

ROCHDALE • ENGLAND

MARKET CONDITIONS

GENERAL BUSINESS

In general business is good, but there are many difficulties; high costs make high selling prices necessary, yet some markets are encountering buyer resistance.

No really settled conditions can be expected until after November—the election month.

ASBESTOS - RAW MATERIAL

The situation in the raw material market shows little change. Asbestos fibres of practically all grades are in short supply; producers are unable to fill orders; that's the situation in a nutshell.

However production in August was higher than in previous months, and helped the situation considerably.

Cost of fibre production is increasing steadily.

ASBESTOS - MANUFACTURED GOODS

Textiles. One manufacturer has announced a price increase of approximately 5% effective October 1st and ascribes the present increased demand to purchasers covering their anticipated requirements before the price raise date. As a result they expect a decline in the next several months, unless some specific factor occurs to reverse the trend.

Another producer of textiles has already increased prices but reports a large backlog and believes a reasonably consistent demand will exist for the balance of the year.

The price trend is definitely upward—how could it be otherwise with wages increasing and other costs rising!

Brake Lining. Demand for brake lining is reported as heavy, especially for material to be used on bus or truck fleets and somewhat less on lining for passenger cars. As a whole the volume for 1948 is expected to run about 15% below that of last year. Price trend is downward.

Paper. The demand in this market is described as "good" and "steady"; with a moderate to large backlog of orders. Some end uses of Asbestos Paper are increasing; others are lessening.

At least one manufacturer increased prices 15% on

ASBESTOS-CEMENT ASSOCIATES
INCORPORATED
CORIELL BUILDING MILLINGTON, N. J.

ENGINEERING SERVICE
TO THE ASBESTOS - CEMENT INDUSTRY

SPECIALISTS IN HATSCHEK OPERATION
COMPLETE PLANTS DESIGNED AND EQUIPPED
CONSULTING SERVICE ON MANUFACTURING PROBLEMS

WET MACHINE FELTS

FOR

ASBESTOS CEMENT PRODUCTS
ASBESTOS MILL BOARD

•

DRYCOR FELT COMPANY

STAFFORDVILLE, CONN., U. S. A.

August 10th, because of increasing costs, and for the same reason the price trend is upward.

While new work requiring Saturated Asbestos Paper appears to be slowing up, the maintenance and repair work is holding, and the outlook for the balance of this year is good, with prices stable.

Millboard has a moderate backlog of orders, a moderate demand and at least one manufacturer increased prices on August 10th—20%—because of rising costs.

Insulation. High Pressure. Demand in the High Pressure Insulation market continues very high with large and increasing backlog of orders. Some manufacturers have increased their prices recently.

Insulation. Low Pressure. Because of the quantity of housing being done, the low pressure insulation market is good with moderate but increasing backlog. Here also prices have been increased 15 to 20% by some manufacturers.

Asbestos Cement Products. No change in the asbestos shingle and siding market; demand still exceeds supply; prices are stable. Orders are being filled a trifle more promptly perhaps than in the past. Good business is expected to continue for the balance of the year.

Corrugated and flat materials are still taking all (and more) of production and the outlook is good for the balance of the year. Prices are steady.

Demand for Pressure and Sewer Pipe is still greatly ahead of supply, with a steady demand for Flue Pipe, House Connection Pipe and Electrical Conduit. Orders are ahead of delivery and prices are stable.

The above are the consolidated opinions of men in close contact with the several markets. Opinions from all our readers are welcomed.

BRIEFS

¶ The Formfit Company in remodelling its New York showrooms and offices is using asbestos fabrics for its furniture upholstery.

¶ Asbestos paper rolled into a tube and stapled makes a fine "snoot" for a reflector-type photo lamp, according to Popular Science Monthly. The tube will be found especially useful in side lighting and back lighting where, without it, direct light might strike the camera lens.

¶ The Flight Bar at LaGuardia Airport, New York City, uses asbestos-cement corrugated very effectively for a part of its external wall.

¶ The unique louvred ceiling in the ladies sportswear department of a Minneapolis dress store, uses asbestos-cement board for the ceiling strips, the cool grey color of the strips giving the proper contrast with walls, and the tweeds of the clothing.

¶ Asbestos flexible roofing is suggested for use on old, uneven floors instead of Lineoleum, because it will adjust to the bulges and cracks better than the latter. Floor should be covered with several thicknesses of newspapers first. The roofing can be painted to make it easier to clean. If the top surface of the roofing is rough, turn it upside down.

¶ J-M Flexboard (an asbestos-cement material) is being applied to 10,000 rental units in the San Francisco area, the units having been originally designed and constructed to house workers employed in vital war industries, and therefore of somewhat temporary construction. The recovering of them with Flexboard will convert them into permanent structures.

RUBBER CEMENT

For Asbestos Packings
RUBBER & ASBESTOS CORP.
25 CORNELISON AVENUE
JERSEY CITY 4, N. J.

FRIENDLY APPROACH

A Lesson In Selling

The experienced salesman realizes that orders are increased, and time in selling cut, if regular customers know when he is coming and can be ready for him. But in these days of limited gasoline, and uncertain train reservations, it is difficult to make a schedule stick.

What to do? Let post cards solve the problem. We know of one company that provides its salesmen with printed post cards reading "I Can't Say *How* . . . But I'm A' Comin!" Down the left side three humorous ball-and-stick figures show three ways the salesman might come, pony, scooter, or hobo-wise.

There are two lines which read "Watch for me" (with space for salesman's name) and "about" (with space with date.)

Another salesman of our acquaintance is a believer in the power of the picture post card. Two days before he visits a prospect he sends a card from the town or city where he is then located. He addresses a card, scribbles "See you Thursday. Bill Towner", and drops the message into a convenient mail-box.

He has found that customers especially like this personal message. It has all the ear marks of having been sent by a personal friend; therefore, it just naturally creates a friendly feeling between customer and salesman. And a feeling of friendliness never yet hurt sales!

It's true that customers don't expect the service today that they had before the war—but it isn't true that they have forgotten what service is and no longer want it. The very fact that they have to take delays and substitutions and cut orders makes them appreciate the concern or the salesman who goes out of the way to help them. And appreciation, we all know, brings with it loyalty and steady sales.

. . . —

No man has a right to do as he pleases, except when he pleases to do right.

Announcement

The Name and Address of

PLANT RUBBER & ASBESTOS WORKS

a Division of The Paraffine Companies, Inc.

Have been changed
as of July 1, 1948

to

THE PARAFFINE COMPANIES, INC.
INSULATION DIVISION

475 Brannan Street, San Francisco 19, California

The same products will be manufactured
under the brand names of

PABCO *Precision Molded*
85% MAGNESIA INSULATION
and
PRASCO HIGH TEMPERATURE
INSULATION

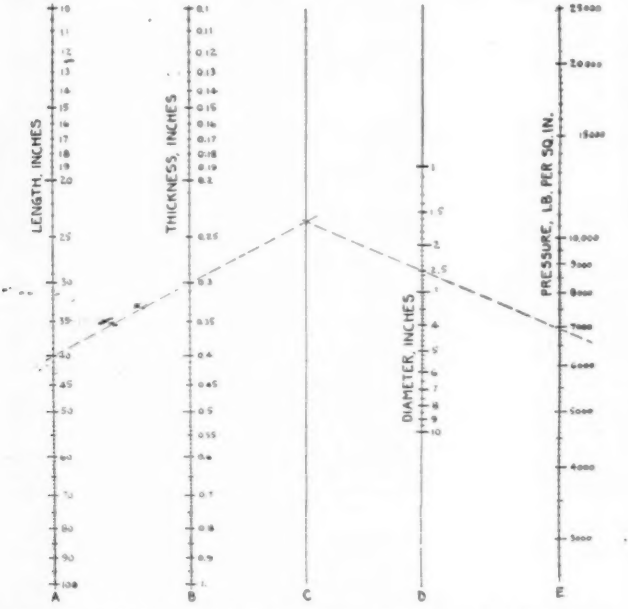
COLLAPSE RESISTING STRENGTH OF IRON PIPE OR TUBE

The accompanying chart can be easily applied by anyone without resort to formulae that are often difficult to work out.

The chart is intended for use wherever iron or steel piping or tubing is subjected to an external pressure which has a tendency to collapse the tube or pipe.

For example: what external pressure will a 2.5 inch pipe safely withstand, whose length is 40 inches and whose thickness is 0.3 inch?

Run a straight line thru the 40 in column **A** and the 0.3 in column **B** and locate the intersection with column **C** as shown by the dotted line. Then from that point of intersection run



thru the 2.5 in column **D** as shown by the second dotted line and the intersection with column **E** gives the result—about 6950 pounds per square inch. *(Continued on page 32)*

JOHNSON'S COMPANY LTD.

ESTABLISHED IN 1875

Head Office

Thetford Mines, P. Q., Canada

Mines

Thetford Mines, Quebec
Black Lake, Quebec

Producers of All Grades of

RAW ASBESTOS

REPRESENTATIVES

GREAT BRITAIN ..... A. A. BRAZIER & CO.
"Avenue Lodge"
65a Bounds Green Road,
LONDON, N. 22, England.

CHICAGO 4, ILL. ..... GRANT WILSON, INC.
141 West Jackson Boulevard

NEW YORK, N. Y. .... CONNELL ASBESTOS MFG. CO.
Bldg. 1, Atlas Terminal
Glendale 27, L. I.

SAN FRANCISCO, CALIF. ..... LIPPINCOTT CO., INC.
481 Market Street

The chart can be used with equal ease for determining an one of the factors—length, thickness, diameter or pressure—where the other three are known. Thus, if we wish to determin the thickness of pipe necessary to withstand a pressure of 69 lbs. per sq. inch., where the pipe diameter is 2.5 inches and th length 40 inches, the same dotted lines will show the thickne to be 0.3 inch, in column B.

BUILDING CONTRACT VOLUME CONTINUES UPWARD

Building and construction contracts awarded in the thirty-seven states east of the Rocky Mountains near the billion-dollar mark (actual figure was $962,685,000) in July, according to the F. W. Dodge Corporation. This made the total for the first seven months of this year 38% higher than that reported for the same period last year.

The total for July, as above, was 46% higher than that reported for July of last year and 3% higher than the total for June of this year.

The sharp gains were reflected in all major classifications of construction, with nonresidential volume up 56% over July of last year and 8% over June, residential up 45% over July of last year and down 2% from June; heavy engineering works up 31% over July of last year and 1% over June 1948.

AUTOMOBILE SALES

	July 1948
Passenger Cars	356,582
Motor Trucks	116,802
Motor Coaches	1,003
	474,387

June total sales were 431,033; while sales for July 1947 totalled 379,192. These figures cover only cars made in the United States.

The above figures are supplied by the Automobile Manufacturers Association, New Center Building, Detroit 2, Mich.

PHILLIPS ASBESTOS MINES

Producers of

CRUDES

and

Fiberized Asbestos

The World's Finest Fibre

DRAWER 71 **GLOBE, ARIZONA**

Mines and Mills in Gila Co., Arizona

PRODUCTION STATISTICS

Canada

(Department of Mines, Province of Quebec)

Production for June 1948	53,110 tons (2000 lbs.)
Compared with June 1947	50,102 tons (2000 lbs.)

By Grades — All tons 2000 lbs.

	1st Six Mos. 1948	1st Six Mos. 1947
Crude	378 tons	422 tons
Fibre	111,010 tons	105,551 tons
Shorts	222,845 tons	208,106 tons
	334,233	314,079

Turkey

(From India Rubber Journal)
(Converted from Metric to Short tons)

	Production Tons (2000 lbs.)	Exports Tons (2000 lbs.)
1939	97	—
1940	108	4
1941	161	32
1942	323	127
1943	147	82
1944	61	9
1945	39	...
1946	61	...

We don't know one millionth part of one percent about anything—Thomas A. Edison.

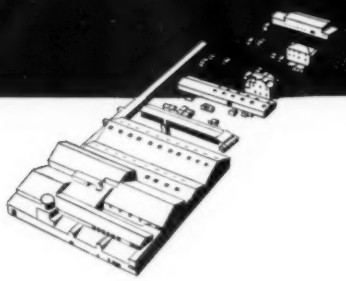
It's not the hours you put into a job that count, it's what you put into the hours.

ASBESTOS MINING ENGINEER

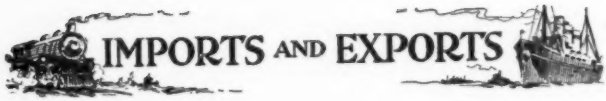
Graduate Mining Engineer wanted for Asbestos operation in Quebec of progressive long-established company. Position includes surveying, supervision of Diamond Drilling and miscellaneous engineering work. Experience desirable but recent graduate considered. Send complete resume including education, experience, etc., to Box No. 8F-R, "ASBESTOS" 17th Fl., Inquirer Bldg., Phila., 30, Pa.

ASBESTONE
CORPORATION

Manufacturers
Asbestos-Cement
Building Products



FACTORY AND SALES OFFICE
5372 TCHOUPITOULAS ST., NEW ORLEANS, LA.



Imports into U. S. A.
(Figures by Bureau of Census)
Unmanufactured Asbestos—By Countries

	May 1948 Tons (2240 lbs.)
From Canada	41,932
S. Rhodesia	1,505
Union of S. Africa	1,406
U. S. S. R.	1,113
	45,956
Value	*$3,165,941*
By Grades:	
Crude No. 1 (Chrysotile)	
S. Rhodesia	76
Union of S. Africa	45
Crude No. 2 (Chrysotile)	
S. Rhodesia	970
Union of S. Africa	371
Crude—Other (Chrysotile)	
Canada	27
S. Rhodesia	459
Crude (Blue)	
Union of S. Africa	22
Crude (Amosite)	
Union of S. Africa	968
Textile Fibres (Chrysotile)	
Canada	1,474
Shingle Fibres (Chrysotile)	
Canada	5,229
Paper Fibres (Chrysotile)	
Canada	4,970
U. S. S. R.	1,113
Fibres—Short Grades (Chrysotile)	
Canada	30,232
	45,956

Manufactured Asbestos Goods:

	May 1948 Quantity (Lbs.)	Value
Asbestos Yarn		
United Kingdom	993	$ 767

(Continued on page 38)

ASBESTOS FIBRE SHINGLE GRADES

Immediate delivery.

A NEW MODERN ASBESTOS PLANT
WITH REVOLUTIONARY EQUIPMENT

Your inquiries are invited.

•

ASBESTOS FIBRES, INC.

Preparation Plant:

33 AVENUE P, NEWARK, N. J.

Main Office:

56 CRITTENDEN ST., NEWARK, N. J.

Imports Continued

	May 1948 Quantity (Lbs.)	Value
Asbestos Packing—Not Fabric		
United Kingdom	1,742	1,13[illegible]
Asbestos Woven Fabrics—Other		
Canada	95,313	7,83[illegible]
United Kingdom	878	67[illegible]
Asbestos-Cement Products (Not Impreg.)		
Canada	43,583	1,27[illegible]
Asbestos-Cement Products (Impreg.)		
Belgium	7,334	50[illegible]
Asbestos Manufactures (Other)		
Canada	.....	1[illegible]
United Kingdom	.....	82[illegible]
	149,843	$13,03[illegible]

Exports from U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos

	May 1948 Tons (2240 lbs.)	Value
To Uruguay	68	$20,740
Venezuela	9	1,750
Mexico	....	649
Netherlands	48	8,543
Austria	300	44,700
Other Countries	4	803
	429	$77,185

Manufactured Asbestos Goods:

	May 1948 Quantity	Value
Asbestos Paper, Mlbd. & Rlbd.	Lbs. 553,688	$ 43,619
Asbestos Pipe Covg. & Cement	Lbs. 288,682	25,725
Asbestos Textiles & Yarn	Lbs. 27,023	22,968
Asbestos Packing	Lbs. 241,912	175,293
Asbestos Brake Lng. (Mld. & S. Mld.)	Lbs. 224,698	208,585
Asbestos Brake Lng. (Woven)	L. Ft. [illegible],007	33,536
Asbestos Clutch Fcgs. (Mld. & S. Mld.)	No. 62,548	32,478
Asbestos Clutch Fcgs. (Woven)	No. 22,581	13,869
Asbestos Blks. (Woven)	Lbs. 4,225	7,373
Asbestos Sheets	Lbs. 221,500	18,517
Asbestos Roofing	Sqs. 14,992	102,084
Other Asbestos Manufactures	—	92,336
		$788,340

EUROPEAN ASBESTOS

SPINNING, SHINGLE and PAPER FIBRE

also

SHORTS and 8S

•

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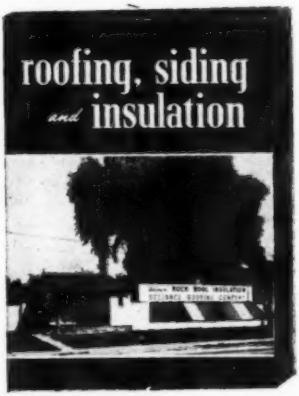
Offices at

535 Fifth Avenue
New York 17, N. Y.

Les Amiantes de France
30 Rue Hamelin
Paris (16e) France



45 W. 45th St.

.... SURE WAY....

of selling the nation's roofing, siding and insulation contractors!

CANTOR PUBLISHING CO.

New York 19, N. Y.

NEWS OF THE INDUSTRY

BIRTHDAYS

W. N. Bolster, President and Treasurer, General Insulation Co., Boston, Mass., September 20.

J. W. Ledeboer, Second Vice President, Keasbey & Mattison Co., Ambler, Pa., September 20.

W. C. Dodge, Jr., Advertising Manager, Keasbey & Mattison Co., Ambler, Pa., September 21.

C. Stanley Morgan, Detroit, Mich., September 25.

R. H. Temple, Secretary-Treasurer, Thermoid Co., Trenton, N. J., September 25.

E. R. Teubner, Jr., President and Treasurer, Philadelphia Asbestos Co., Philadelphia, Pa., September 26.

O. H. Cilley, Vice President, United States Asbestos Division, Raybestos-Manhattan, Inc., Manheim, Pa., September 27.

Harold R. Berlin, Vice President, Johns-Manville Sales Corporation, New York City, September 28.

W. H. Fehrs, Assistant to the President, Union Asbestos & Rubber Co., Cicero, Ill., September 28.

J. M. High, The Ruberoid Co., New York City, September 28.

William B. Brown, Partner, The Insulation Co., Hartford, Conn., September 29.

Frank L. Sowka, Treasurer, Standard Asbestos Mfg. Co., Chicago, Ill., October 1.

W. W. Dunkin, Treasurer, Southern Friction Materials Co., Charlotte, N. C., October 5.

C. L. Moorman, Vice President, Union Asbestos & Rubber Co., Chicago, Ill., October 6.

Harry E. Smith, Vice President, Raybestos-Manhattan, Inc., Passaic, N. J., October 8.

Russell E. Crawford, Secretary, Ehret Magnesia Mfg. Co., Valley Forge, Pa., October 9.

P. C. Rowe, Executive Vice President and Director, The Flintkote Co., New York City, October 9.

John H. Victor, President, Victor Mfg. & Gasket Co., Chicago, Ill., October 9.

A. L. Penhale, General Manager and Secretary, Asbestos Corporation Limited, Thetford Mines, P. Q., Canada, October 11.

R. Tomlinson, President, Pacific Asbestos Supply Co., Portland, Ore., October 12.

H. R. Barrett, Vice President and Controller, Philip Carey Mfg. Co., Lockland, Cincinnati, Ohio, October 13.

W. W. F. Shepherd, Chairman of the Board, Keasbey & Mattison Co., Ambler, Pa., (Residing in England) October 13.

W. M. Paxton, Sales Manager Packing Department, Raybestos Division, Bridgeport, Conn., October 14.

Thos. D. Stone, President, Stone Industrial Equipment Co.

BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

MILLBOARD **YARNS**
ROVINGS **POWDER** **CLOTHS**
PROCESSED FIBRES
Unexcelled for use in
ASBESTOS CEMENT PIPES

AMOSITE ASBESTOS

This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

Asbestos mattress filler
85% Magnesia insulation

The CAPE ASBESTOS CO. Limited

Morley House, 28-30 Holborn Viaduct, London, E.C.1.
FACTORY, BARKING, ESSEX

United States Sales Agent:

ARNOLD W. KOEHLER

415 LEXINGTON AVE. **NEW YORK CITY**

TELEPHONE—VANDERBILT 6-1477

Springfield, Mass., October 14.

R. H. Shainwald, Executive Vice President, The Paraffine Companies, Inc., San Francisco, Calif., October 15.

David E. Kelley, President, Kelley Asbestos Products C., Kansas City, Mo., October 16.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

THERMOID NEPHI PLANT IN OPERATION

The large, modern plant of the Thermoid Company at Nephi, Utah, is now approaching 75% operation. Industrial belts (conveyor, transmission and V), hose of all kinds, including Rotary and Wire Braid Hydraulic, molded products for the oil fields, and fan belts and radiator hose for the automotive trade will be manufactured in this new modern unit.

Clean, light and well ventilated, the new Thermoid plant covers 23½ acres; its buildings alone—193,044 square feet. Included in its modern equipment is a very large horizontal braider, the only one of its kind in the United States.

This modern factory at Nephi, Utah is the fourth manufacturing unit of the Thermoid Company. Others are located at Trenton, N. J. (the main plant); at Charlotte, N. C. (a large asbestos textile factory) and at Welland, Ontario, (the Canadian subsidiary where more than 90% of all hard rubber battery cases used in Canada are produced).

ASBESTOS MINING INDUSTRY IN CANADA—1947

A six page pamphlet under the above title has been issued recently by the Department of Trade and Commerce, Dominion Bureau of Statistics, Ottawa, Canada.

It contains various statistics—number of asbestos firms, number of employes, salaries and wages, shipments by grades, tonnage of rock mined and milled, fuel and electricity used, power equipment taxes paid by the Asbestos Mining Industry, and other data of interest.

If interested write the above mentioned Department for Bulletin A7-19-7-48—price is 25c.

DRYCOR BELT COMPANY MOVE COMPLETED

The Drycor Felt Company has completed its move from Belleville, N. J., to its new plant at Staffordville, Conn.

The move was made without breaking continuity of manufacture by the installation of new equipment at Staffordville, substantially duplicating the Belleville plant, this resulting in a final doubling of the company's productive capacity.

ASBESTOS & ASPHALT PRODUCTS CO.
Change In Name

Midland Engineeering Co., Inc., is the new name of the insulation contracting company located at 401 S. Notre Dame Ave., South Bend, 22, Indiana, which was formerly known as the Asbestos & Asphalt Products Company.

ACE ASBESTOS MANUFACTURING CO.

Importers, Exporters, Processors of Asbestos Fibres of All Varieties

of

RAW ASBESTOS

for

Every Use

●

CHRYSOTILE
AMOSITE
AMPHIBOLE FIBRES

originating in

U. S. A. (ARIZONA)
CANADA
RUSSIA
CHINA
INDIA
RHODESIA
SOUTH AFRICA

●

Large Capacity Fiberizing and Grading Plant

451 Communipaw Ave. **Jersey City, N. J.**

ASBESTOS CO. OF CALIFORNIA Changes Name.

The Asbestos Company of California has changed its name to Plant Asbestos Company. There has been no change in its corporate structure and the management is the same, H. V. Hansell being President.

Plant Asbestos Company has been appointed exclusive distributors, both for sales and application, of Pabco Insulation as manufactured by Paraffine Companies, Inc., and has bought outright all sales rights, manufacture and trade marks for Plant Packings. They will continue to service from their office Plant Packings under the Plant label, and will themselves manufacture such Packing items as were previously made by Plant Rubber & Asbestos Works.

In addition to the Paraffine insulation lines and Plant Packings the Plant Asbestos Company are exclusive dealers in California for B & W Insulating Fire Brick, distributors in Northern California for Norristown Magnesia & Asbestos Company, Eagle-Picher Sales Company, Manhattan Rubber Division of Raybestos-Manhattan, Inc., and Grant Wilson, Inc.

The Company maintains offices in San Francisco, San Jose and Modesto and will continue the same service and policy as was formerly extended by the Asbestos Company of California.

CAREY DECLARES DIVIDEND

The Board of Directors of Philip Carey Mfg. Co., at its regular quarterly meeting held recently in New York City, declared dividends on both preferred and common stock. A regular quarterly dividend of $1.25 per share was declared on Carey 5% preferred stock, and a regular quarterly dividend of 40c per share was declared on Carey common stock. These dividends are payable September 30th to holders of stock of record as of September 15.

PABCO HOLDS SALES MEETING

The Building Material Sales Division of Paraffine Companies, Inc., held a sales conference at the Company's home office in San Francisco, August 20th and 21st, to outline future sales plans.

The meeting, under the supervision of J. E. Holbrook, Vice President-Sales, and L. K. Bishop, Manager of the Building Materials Division, was attended by all Pabco Building Material Salesmen for the 11 Western States. Topics discussed included future marketing plans as well as the Company's Fall advertising and merchandising program. Prior to the meeting all Sales Personnel made tours thru the Pabco roofing paint, floor covering and insulation plants at Emeryville and the asbestos cement plant at Redwood City.

Royal Pipe Covering Protectors

Insure - Permanent - Economical Protection To All Open Ends Of Pipe Covering

SHIPPED FROM STOCK

THE PROTECTOR COMPANY

40 L. STREET SOUTH BOSTON, 27, MASS.

AMPHIBOLE ASBESTOS OF PORTUGAL

Long and short fibres — Prompt shipment

SOCIEDADE PORTUGUESA DE AMIANTOS, Lda.
Rua Sa da Bandeira, 245 - Porto - Portugal

MACHINERY

For making corrugated sheets and pressure pipes. Short term deliveries. Complete plants designed, equipped and started. Our Engineers have had thirty years experience in making Asbestos-cement sheets and pipes.

DURITE TECNICA - Via Cavana 24, TRIESTE, ITALY
Cable address: Durite - Trieste

FOR SALE, LEASE OR SHARE

Forty thousand ton dumps Arizona chrysotile asbestos 15% crude asbestos. Approximately No. 1, 3%; No. 2, 40%; No. 3, 30%; No. 4, 27%. Good roads forty mile haul Globe, Arizona. Best milling machinery; Engineer's report, references. Inquiry invited.

Wm. G. Shanley, 450 South Normandie Ave., Los Angeles 5, Calif.

Fine Asbestos Tapes and Sleevings

Light Weight Asbestos Cloth

ATLAS ASBESTOS COMPANY
North Wales • Pennsylvania

L. R. LEAVER ELECTED VICE PRESIDENT OF THERMOID

Lloyd R. Leaver was recently elected Vice President of Thermoid Company. Mr. Leaver is President of the Thermoid subsidiary, Joseph Stokes Rubber Company, Limited, of Welland, Ontario, Canada. He has been directing head of the latter Company for over nine years.

In his new capacity, Mr. Leaver will manage Thermoid's Industrial Rubber Products Division. He will continue to direct the policies of the Canadian subsidiary from Trenton.

RAYBESTOS-MANHATTAN, INC.
Report for First Half

For the first half of 1948, Raybestos Manhattan, Inc., reports a net profit of $1,135,456, compared with $1,124,260 for the same period in 1947. This is equivalent to $1.80 a share in 1948—$1.79 in 1947.

PABCO ANNUAL MEETING

The annual meeting of stockholders of The Paraffine Companies, Inc., will be held at the office of the Company, 475 Brannan St., San Francisco, on Tuesday, September 28.

At a meeting of the Board of Directors held August 27th, the regular quarterly dividend of $1.00 per share on the 4% cumulative convertible preferred stock was declared to stockholders of record October 1, 1948, payable October 15th. A dividend of 30c per share was declared on the common stock to stockholders of record September 8th, payable September 27th.

UNARCO APPOINTS BYRNES SALES MANAGER

Arthur R. Byrnes has been appointed sales manager of the packing and textile division of the Union Asbestos & Rubber Company.

Mr. Byrnes has been with the Union Asbestos & Rubber Company since 1927 as manager of the packing and textile divisions in the Cicero, Ill., plant.

As of September first he is manager of the packing and textile divisions at Cicero, and also at Davidson, N. C., where the Carolina Asbestos Division of Union Asbestos & Rubber Co., is located.

UNITED ASBESTOS CORPORATION CONCENTRATES ON BLACK LAKE AREA

We understand that the United Asbestos Corporation (717 Transportation Building, 132 St. James St., West, Montreal) has decided to focus their attention on the development of claims at Black Lake, and that drilling is now underway.

Article—The July issue of the Canadian Mining Journal (published at Gardenvale, P. Q., Canada) contains an article "Deepening of No. 1 Shaft, Johnson's Company" by Edward Futterer, Jr. Some of our readers may be interested in this.

INDUSTRIAL SERVICE COMPANY

Builders of

ASBESTOS CEMENT MACHINERY

Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.

Your Inquiries Are Invited

151 Paterson Avenue E. Rutherford, N. J.

ASBESTON*

Light-weight · High-strength · Low-gauge
Asbestos Fabrics — Asbestos Tape

Textile Division

UNITED STATES RUBBER COMPANY

1230 AVENUE OF THE AMERICAS, NEW YORK 20, N. Y.

*Reg. U. S. Pat. Off.

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AMERICAN ROOFER and SIDING CONTRACTOR
425 Fourth Avenue, New York City

PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D. C.

Copies of patents can be obtained by sending 25c (in coin) to The Commissioner of Patents, Washington, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Fibro-Cementitious Sheets. No. 2,445,210. Granted on July 13, 1948, to Dudley T. Colton, Martinsville, N. J. Assignor to Johns-Manville Corporation, New York. Application December 4, 1945. Serial No. 632,669.

The method of manufacturing hard and dense asbestos-cement shingles having an irregular textured surface which comprises forming a dry mixture layer comprising finely divided hydraulic cement, finely divided silica and asbestos fibres, compressing said layer and wetting it with sufficient water to hydrate the cement, uniformly distributing dry, finely divided mineral grains over the moist face of the base layer to form a thin parting and coating layer uniformly distributing over the parting and coating layer another dry mixture layer comprising finely divided hydraulic cement and finely divided silica and asbestos fibres, compressing the top layer thus formed and wetting it with sufficient water to hydrate the cement, densifying the composite sheet under a pressure of at least 5,000 pounds per square inch, developing a hardening set of the cement component and composite sheet by curing it in an atmosphere of saturated steam under a pressure of the order of 75-150 pounds per square inch guage and splitting the sheet along irregular intersecting planes of cleavage formed about and between interlocking grains in the parting and coating layer to form two shingles each having some of said grains bonded to and protruding from the textured surface thereof.

Making Tubular Coverings. No. 2,445,231. Granted on July 13, 1948 to Paul F. McDermott, Martinsville, N. J. Assignor to Johns-Manville Corporation, New York. Application September 9, 1944. Serial No. 553,376.

In the method of making tubular coverings the steps comprising knitting a seamless, distortable tubular liner, knitting a seamless distortable tubular sleeve surrounding said liner to define an insulation space between the sleeve and liner and substantially simultaneously therewith pneumatically conveying a loose filler into the space between said liner and sleeve.

Insulating Board. No. 2,445,415. Granted on July 20, 1948 to Harvey Roland Anderson, Eureka, Pa. Assignor to Keasbey & Mattison Co., Ambler, Pa. Application February 16, 1944. Serial No. 522,658.

The method of forming an insulating board or slab compris-

ing the steps of opening asbestos fibres, permeating said opened asbestos fibres with a waterproofing agent in a solvent bath, drying said permeated asbestos fibres to remove said solvent and leave thin waterproof films encasing the fibrils of said fibres, mixing said encased waterproof fibres with dry, thermoset ing resin particles, working said mixture into a water slurry emulsion, employing an excess of water, then pressing the slurry with particles of resin dispersed thru the fibres to a solid blank form in a mold to substantially remove excess water and then drying said blank so molded in final form, and then pressing and heating said dry blank to give a substantially finished board.

Molding of Boxes from Laminations of Felted Fibrous Materials Impregnated with Synthetic Resins. No. 2,446,038. Granted on July 27, 1948 to Alfonso Amigo, Ealing, London, England. Assignor to Ebonestos Industries, Ltd., London.

An apparatus for molding boxes from a packet of laminations of felted fibrous material impregnated with synthetic resins. Further descriptions upon request.

Means for Preparing Fibrous Molding Compositions. No. 2,446,345. Granted on August 3, 1948 to Howard Snow and Rudolph H. Hocutt, Charlotte, N. C., assignors to Southern Friction Materials Corp., Charlotte, N. C. Application July 27, 1943. Serial No. 496,356. Description upon request.

Manufacture of Cementitious Sheets. No. 2,446,782. Granted on August 10, 1948, to Harold J. Otis, New Orleans, and Jack Hesse, Gretna, La., assignors to Johns-Manville Corporation. Application January 26, 1946. Serial No. 643,798.

In manufacturing asbestos-cement shingles the steps comprising forming a base layer including a dry mixture of asbestos fibres and hydraulic cement, deaerating and compressing the layer material, moistening the material with sufficient water to hydrate the cement, continuously advancing the layer while allowing the water to penetrate uniformly therethru, applying to said moistened base layer a veneer coating including an intimate dry mixture of short asbestos fibres, finely divided mineral pigment and finely divided hydraulic cement, deaerating and strongly compressing said veneer coating and moistening the same while advancing the veneer coated sheet at a rate of at least 50 feet per minute and allowing a period of at least 20 seconds for the moisture to penetrate thruout the veneer coating, highly compressing the composite shingle and developing a hardening set of the cement binder.

WANTED

Scrap Asbestos—white, unimpregnated with graphite, asphalt or wire—especially white gasket waste. Steady demand.

A. S. Thompson, 56 Crittenden St., Newark, N. J.

AFTERTHOUGHTS

¶ The Bureau of Foreign and Domestic Commerce has sent us the following item: R. E. Franz Limited (export merchant), Blackfriars House, New Bridge Street, London, E. C. 4, wishes to export up to 500 tons monthly of Cape and Rhodesian blue asbestos, chrysotile and amosite. Firm prefers outright sale basis, but will consider agency if necessary.

¶ Twenty years ago Johns-Manville spent 1c out of every sales dollar for research. At present they spend 1.7c out of the sales dollar and when their enlarged research program gets fully underway 2c out of every sales dollar will go for research.

¶ Add another item to "Distances" (See page 14 of June 1948 "ASBESTOS")—In Corsica the deposit of Canari (in Cap Corse) is, by road, about 25 miles from Bastia, the seaport from which the asbestos will be shipped.

¶ A specimen of asbestos from Greece has been received by us recently, but we can't say that it looks very promising. While to a certain extent fibrous, and perhaps of the chrysotile variety it is very "woody" and brittle. This may be surface material: quality might improve with depth. We have practically no information concerning the deposit.

¶ We understand that three mines in the Transvaal (South Africa) are being opened up on a large scale—the Stolzburg, Kalkkloof and Barberton. More information about these mines will be appreciated.

¶ The article on page 16 of this issue concerning the history of Asbestos Production in the Union of South Africa, is the third in this series. The others were published in July 1948 (Canada) and August 1948 (Rhodesia).

BOOK LIST

The Asbestos Factbook, 16 pages. Information in compact form on origin, facts, locations, uses, analyses, qualities, 10c

Asbestos Mining Methods. By C. V. Smith. (Reprint) 16 pages. 25c per copy, discount in quantities of 50 or more.

Milling Asbestos. By J. C. Kelleher. (Reprint) 16 pages. Companion article to Asbestos Mining Methods. Both should be in every Asbestos Library, 25c per copy, discount in quantities of 50 or more.

Recovery of Raw Asbestos. By Roland Starkey. (Reprint) 6 pages. Supplement to Milling Asbestos. 25c per copy, discount in quantities of 50 or more.

Canadian Chrysotile Asbestos Classification. Including latest Quebec Testing Method. 30c.

Processing Asbestos Fibres. 8 pages. (Reprint) 25c per copy

Tests for Cotton Content. 4 pages (Reprint) Describing several methods of testing asbestos textiles for cotton content. 10c per copy.

Chart—Dollars Cost of Uninsulated Pipe. (Reprint) 20c each

Twelve Estimating Tables, with Chart. Convenient in figuring flange fittings and other areas. $1.00 per set.

Manual of Unit Prices (for figuring pipe covering and blocks) 35c per copy postpaid.

Asbestos: A Magic Mineral, by Lilian Holmes Strack. Written for school children but should be in every Asbestos library. $1.00 per copy.

Asbestos—The Silk of the Mineral Kingdom, by Oliver Bowles. 40 pages about asbestos, from mine to finished product, in plain language, illustrated, 25c a copy.

Order any of the above from "ASBESTOS", 17th Fl., Inquirer Bldg., Philadelphia 30, Pa. Postage stamps acceptable for amounts less than $1.00.

FOR SALE

Corrugating Rolls, bearings and frame for hot or cold use on asbestos paper. Never used. Address Model Shop, 606 Hagel Ave., Linden, N. J.

FOR SALE

Approximately fifteen thousand lineal yards Fiberglas Class A Lagging Cloth Treated. Sixty inches wide. $2.00 per yard. L. G. Jordan, 118 North Hamilton Street, Houston 2, Texas.

CURRENT RANGE OF PRICE

As of September 10, 1948

	Per Ton (2000 lbs.) f.o.b. Mine
Canadian—	
Group No. 1 (Crude No. 1)	$896.00 to $960.00
Group No. 2 Crude No. 2; Crude Run-of-Mine and Sundry	350.00 to 540.00
Group No. 3 (Spinning or Textile Fibre)	204.50 to 378.00
Group No. 4 (Shingle Fibre)	84.50 to 128.00
Group No. 5 (Paper Fibre)	69.50 to 78.00
Group No. 6 (Waste, Stucco or Plaster)	47.00 to 51.50
Group No. 7 (Refuse or Shorts)	24.50 to 46.00
Vermont—	
Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.	
Group No. 4 (Shingle Fibre)	$97.00 to $107.00
Group No. 5 (Paper Fibre)	68.50 to 85.00
Group No 6 (Waste, Stucco or Plaster)	51.00
Group No. 7 (Refuse or Shorts)	25.50 to 46.50

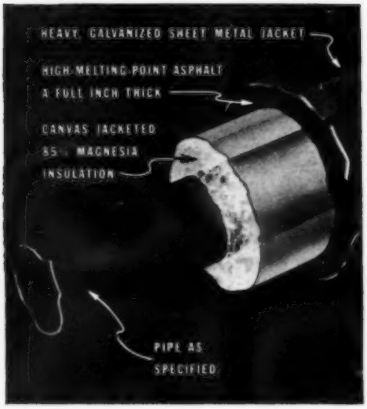
Note: Crude Run-of-Mine (Canadian) refers to a crude asbestos produced in certain mines where Crude Fibre is not graded into regular No. 1 and 2 Crude. Crude Sundry refers to certain odd lots of off material which do not conform to the regular standards of No. 1 Crude or No. 2 Crude.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial and Financial Chronicle. No guarantee as to their correctness).

		August 1948		
	Par	Low	High	Last
Armstrong Cork (Com.)	np	50	53¾	52
Armstrong Cork (Pfd.)	np	94¼	97	94¾
Armstrong Cork (Cum. Pfd.)	np	111½	113¼	112
Asbestos Corp (Com.)	np	25½	26¾	26
Asbestos Mfg. Co. (Com.)	1	1¾	2	1⅞
Celotex (Com.)	np	27¾	30	28¼
Celotex (Pfd.)	20	18½	19½	19⅛
Certainteed (Com.)	1	15½	17½	16¼
Flintkote (Com.)	np	33	35⅞	33
Flintkote (Pfd.)	np	99½	102½	100½
Johns-Manville (Com.)	np	34½	36⅞	34¾
Johns-Manville (Pfd.)	100	103½	107½	107½
Paraffine (Com.)	np	23	25½	23
Paraffine (Pfd.)	100	103¼	105	103¾
Raybestos-Manhattan (Com.)	np	29½	31½	31¼
Ruberoid (Com.)	np	61	65	65
Thermoid (Com.)	1	8	8½	8
Thermoid (Pfd.)	50	40⅛	42¾	41
Union Asb. & Rub. (Com.)	5	12⅞	14⅛	12⅞
U. S. Gypsum (Com.)	20	98	107	105½
U. S. Gypsum (Pfd.)	100	168¼	174	172½
U. S. Rubber (Com.)	10	44	47¼	44½
U. S. Rubber (Pfd.)	100	127½	135	128½

Sectional view of Durant Insulated Pipe, showing construction features. Pipe, insulation and protection are factory-fabricated into units.



EHRET'S D.I.P.

. . . SETS STANDARDS FOR UNDERGROUND INSULATED PIPING

Ehret's Durant Insulated Pipe combines the high insulating efficiency of 85% Magnesia and the time-defying characteristics of imperishable asphalt. Added to this advantage is factory-fabricated construction which makes field installation both rapid and economical.

Send for the special Ehret booklet on D. I. P. It contains full details on this modern system for underground insulated piping.

EHRET MAGNESIA MANUFACTURING COMPANY

VALLEY FORGE • PENNSYLVANIA

SOUTHERN ASBESTO

ROVING

Southern Asbestos Roving—a single cord of untwisted asbestos fibre—widely used to flame-proof many types of electrical wires and cables. Carefully selecting the proper fibres, Southern cards them and condens
or rubs them to produce uniform strands of roving with maximum tensile strength.

Southern Asbestos has had over 25 years of specialized experience in developing and manufacturing Asbestos Textiles and Textile Products. Its technical and production facilities are available to solve your problems.

Southern Asbestos Ro supplied in many type sizes—in tubes, cones or c Write for illustrated Fold 1003.

A COMPLETE LINE OF ASBESTOS TEXTILE PRODU

HREAD • CORD • CLOTH • ROPE • YARNS • CARDED F
UBING • LISTING TAPE • WICKING AND OIL BURNER W

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